- 73. (original) The circuit according to claim 72 wherein each of the different materials has a different resistivity from the other.
- 74. (original) The circuit according to claim 72 wherein each of the different materials is a doped semiconductor material.
- 75. (original) The circuit according to claim 74 wherein the doped semiconductor material is either an n-type or a p-type semiconductor material.
- 76. (original) The circuit according to claim 72 wherein the nucleic acid template is DNA.
- 77. (original) The circuit according to claim 72 wherein the nucleic acid template is RNA.
- 78. (original) The circuit according to claim 72 wherein the circuit element is a resistor and the different materials comprise a first material separated by a second material having a different resistivity than the first material.
- 79. (original) The circuit according to claim 78 wherein the first material comprises a metal and the second material comprises an at least partially conductive material.
- 80. (original) The circuit according to claim 72 wherein the circuit element is a diode and the different materials comprise a first type of semiconductor material adjacent to a second type of semiconductor material.
- 81. (original) The circuit according to claim 80 wherein the first and second types of semiconductor materials are N-type and P-type semiconductor materials.
- 82. (original) The circuit according to claim 80 further comprising a pair of at least partially conductive leads, each of the leads is coupled to one of the first and second types of semiconductor materials.

- 83. (original) The circuit according to claim 72 wherein the circuit element is a capacitor and the different materials comprise a pair of conductive leads and a pair of at least partially conductive plates, each of the conductive leads is coupled to one of the plates and the plates are separated by a dielectric.
- 84. (original) The circuit according to claim 72 wherein the circuit element is a transistor and the different materials comprise a first type of semiconductor material separated by a second type of semiconductor material.
- 85. (original) The circuit according to claim 84 wherein the first and second types of semiconductor materials are N-type and P-type semiconductor materials.
- 86. (original) The circuit according to claim 84 wherein the nucleic acid template core comprises three branches having a common intersection, the second type of semiconductor material coating at least a portion of the common intersection and the first type of semiconductor material coating at least a portion of two of the three branches adjacent the intersection.
- 87. (original) the circuit according to claim 86 further comprising a plurality of at least partially conductive leads, each of the leads coupled to one of the first and second types of semiconductor materials along one of the three branches.
- 88. (original) The circuit according to claim 72 wherein the circuit element is an inductor and wherein the different materials comprise a coil of at least partially conductive material and a pair of conductive leads coupled to opposing ends of the coil.
- 89. (original) The circuit according to claim 88 further comprising a core structure, the coil wrapped at least partially around the core.
- 90. (original) The circuit according to claim 89 wherein the core structure comprises a histone-like protein.

91-108. (withdrawn)